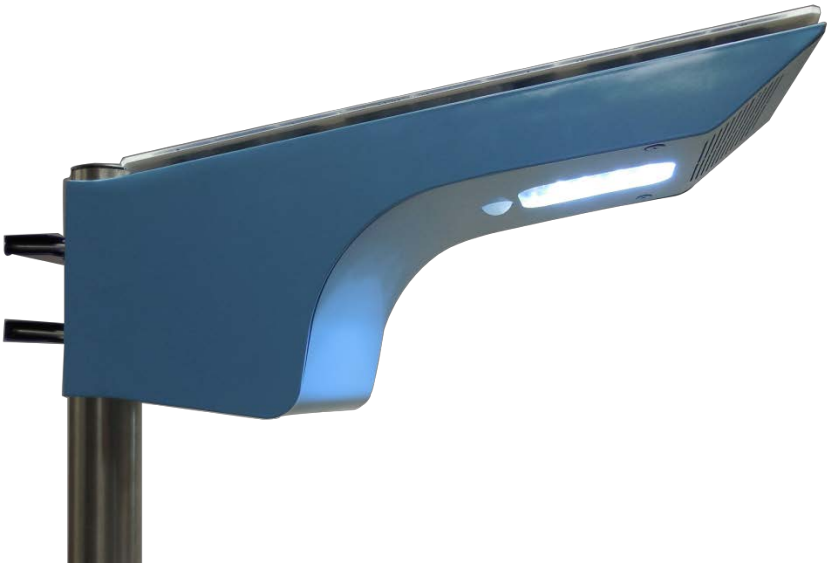
COMMLIGHT® 400

COMMLIGHT® 800

COMMLIGHT® 800XL

Solar Powered Adaptive Lighting

Installation and Maintenance Manual



COMMLIGHT®

Introduction

Thank you for purchasing a product from our COMMLIGHT® series. This system has undergone years of research and rigorous testing at Solar Energy Research Institute of Singapore (SERIS), so as to bring you a product of the highest quality. With the solar panel integrated into the basic version of the lamp as well as its pole independent mounting mechanism, this all-in-one solar powered street lamp is easily installed. The electronic components are sealed in IP65 waterproof housing while the lamp head is made of aluminum, allowing this system to withstand even the harshest of conditions. This system also employs the use of high efficiency LED lighting, long lasting $LiFePO_4$ batteries as well as an intelligent micro-controller and motion sensor, all of which help to boost the efficiency and allow for continuous operation of up to 12 hours in both dimmed and bright mode. With our superior technology, we are able to bring you a high quality product while keeping the price affordable. Already in its assembled state, the ease with which this system can be installed, enables us to provide reliable lighting to virtually any place where the electric grid is missing or unreliable.

Precautions

1. The battery controller box should be opened only by trained personnel. Violation of this will result in a loss of warranty.

2. In the case of COMMLIGHT® 800 and COMMLIGHT® 800XL, any potentially damaged connection cables of the additional solar panels should be repaired immediately by a certified technician.

Package Content

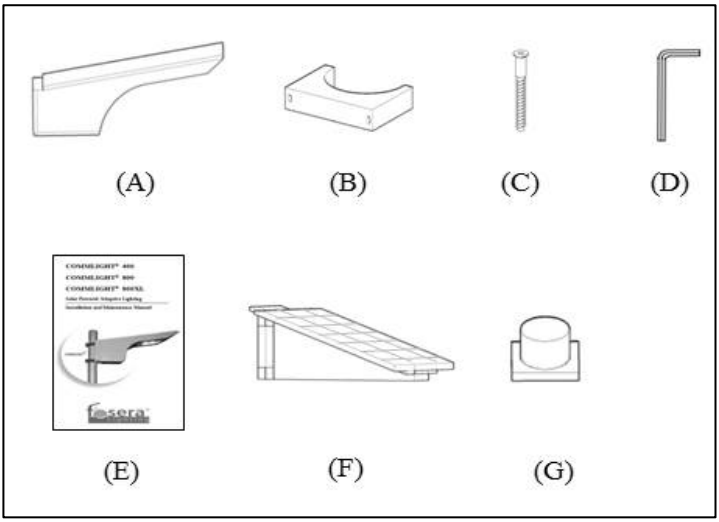
The package should contain the following components:

- All-in-one COMMLIGHT® lamp (A)
- 2x Powder coated steel clamps (B)
- 3x4 Galvanized steel screws (different lengths) (C)
- Customized L-key (D)
- User manual and Warranty conditions (E)

In the case of COMMLIGHT® 800 and COMMLIGHT® 800XL, the package should also contain:

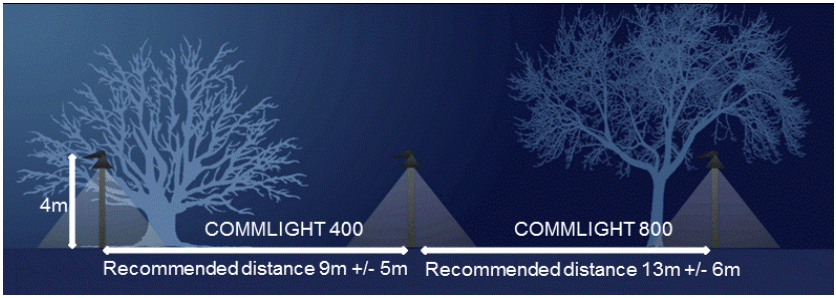
- External module (10Wp or 27Wp) (F)
- 2x Powder coated steel clamps (B)
- 3x4 Galvanized steel screws (different lengths) (C)
- 4x Stainless steel nuts (G)

Please do check the package thoroughly so as to ensure all components have been included in the box.

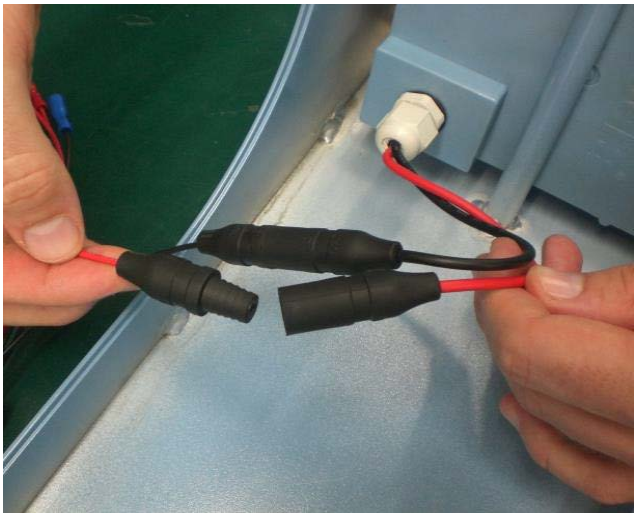


Installation – COMMLIGHT® 400, 800 and 800 XL

1. Choose a suitable location where a pole can be planted or where there is an existing pole. (Note: Pole is not provided)
    - When choosing a suitable pole, it should be approximately 4 meters high as that is the recommended height at which the lamp should be installed. The diameter of the pole can range from 35 millimeters to 85 millimeters.
    - The pole should be located where it is directly exposed to the sun. Any shading from objects such as tree branches or structures will reduce the power output of the solar module and therefore the time of autonomy.
    - In the case of multiple lamp installations, the poles should be 9 meters (+/- 5 meters) apart for COMMLIGHT® 400. For both COMMLIGHT® 800 and COMMLIGHT® 800XL, the recommended distance between poles is 13 meters (+/- 6 meters).



2. Connect the black rubber connector from the battery box to the matching rubber connector from the LED box as shown in the picture below. Ensure that the red cable from the battery box is attached to its matching red cable from the LED box.



3. Install the lamp onto the pole (diameter 35mm – 85mm)

   Steps (depicted on following page):

   (i) Select the 4 screws (C) with the right lengths that fit your pole diameter
   (ii) Attach the 2 clamps (B) to the lamp by screwing it with these screws (C) into the threaded holes.
   (iii) Slide the lamp onto the pole, through the 2 steel clamps.
   (iv) Face the lamp towards the desired location to be illuminated.
   (v) Tighten the anti-theft screws using the customized L-key (D) found within the box.

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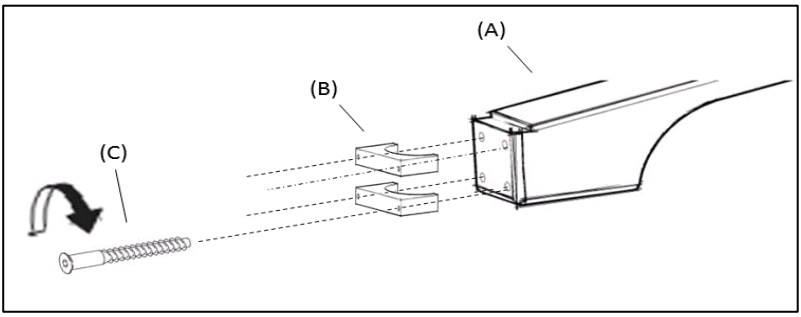

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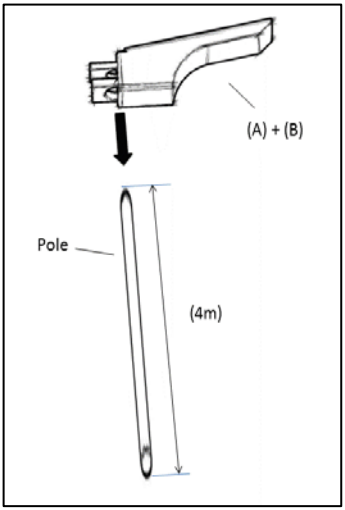

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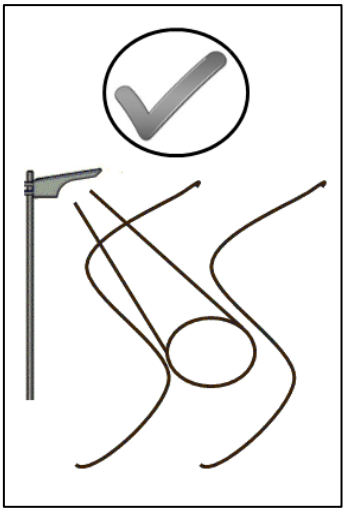

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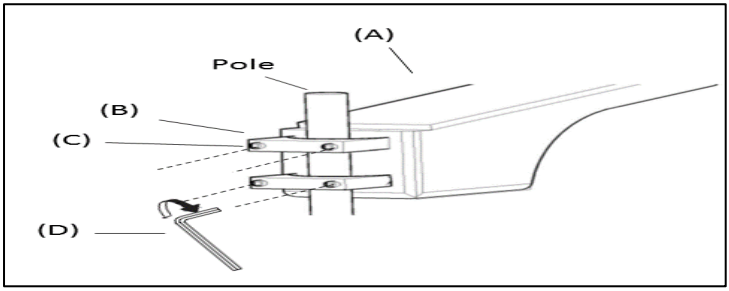
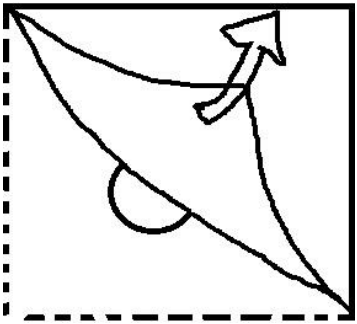


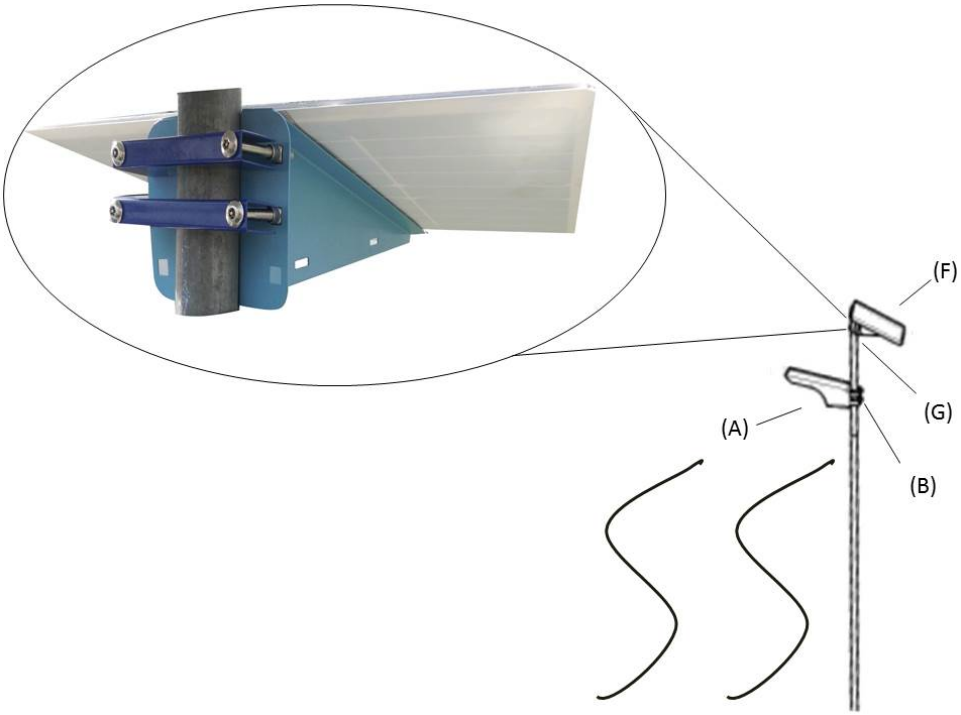
4. Once removed from its paper box, the lamp will begin its operation.



Note: If the lamp is removed from the paper box during the night, it will only start working the following night.

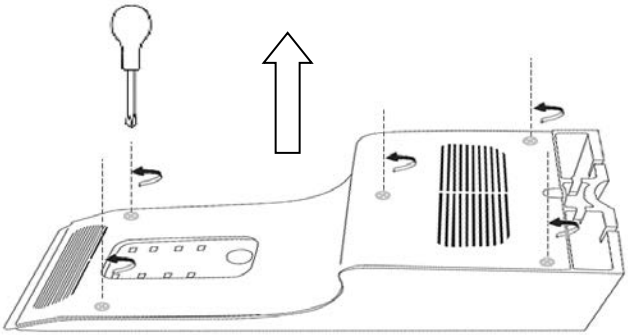
Additional solar module installation – ONLY COMMLIGHT® 800 and 800XL

For both COMMLIGHT® 800 and COMMLIGHT® 800XL there is an external solar module. This needs to be installed above the lamp to ensure that the light sensor is not disturbed. This extra module is then attached to the pole through the use of the provided powder coated steel clamps (B), galvanized steel screws (C) and stainless steel nuts (G). Please use only the modules provided with the COMMLIGHT. The use of any other solar module will void your warranty and potentially destroy your lamp by exceeding maximum Voltage.

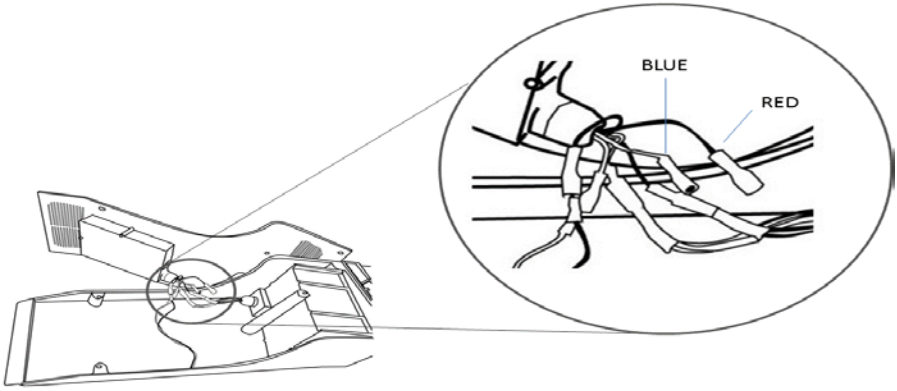


This extra module is manually connected to the battery box in the lamp through the following steps:

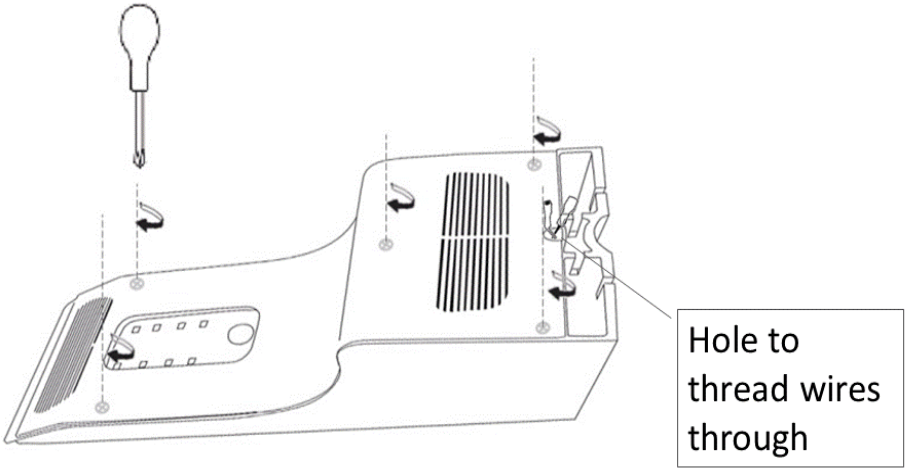
(i) Unscrew the 5 screws then open the lamp cover



(ii) The blue connector from the extra module should be connected to the blue connector from the lamp. Similarly, the red connector of the cable from the extra module should be connected to the matching red connector from the lamp.



(iii) Thread the wires connecting the extra module through the hole then close the lamp cover. Finally, tighten the cover with the screws provided.



Transport

If the lamp should be transported after operation, disconnect the battery before transportation.

Maintenance

1. Clean the module regularly. This is to ensure that sunlight reaching the module is not blocked by dust buildup or soiling, and that the module has proper power output.

2. Check that the insulation of the connecting cable has not worn out and that there are no exposed wires.

Disposal

The components within the lamp should not be discarded alongside normal trash. The materials are recyclable and should be sent to the proper recycling avenues. Please do check with your local authorities on how electronics are disposed in your region, to minimize pollution to our environment.

Contact

Company Address
61 Robinson Road #15-02, Robinson Centre Singapore
Singapore 068893

For further enquiries, please do not hesitate to contact us at:
info@commlight.net

You may also wish to visit our website at:
www.commlight.net

WARRANTY CONDITIONS

As a responsible manufacturer, Fosera Lighting Pte Ltd, is confident of the quality of its products: COMMLIGHT 400, COMMLIGHT 800 and COMMLIGHT 800XL.

Fosera Lighting warrants that the equipment has been carefully tested, inspected and left the OEM Factory in proper working condition, free of visible defects. Correct handling according to the User Manual, that accompanies every device, will provide you years of satisfactory service.

Fosera Lighting guarantees the equipment functionality under normal use and operation, for a period of 24 months from the date of purchase including the battery.

A warranty extension from 2 (two) to 5 (five) years for all Fosera Lighting devices can be purchased for an additional charge at the time of purchase of the product from Fosera Lighting Pte. Ltd.

The above stated WARRANTY CONDITIONS are subject to the following conditions:

- The equipment must be installed, operated and maintained in accordance with Fosera Lighting User Manual operating instructions, maintenance instructions and specifications.
- The warranty is invalid if the device is used other than intended by the manufacturer.
- The warranty cannot apply to any damages resulting from errors in installation, not to any equipment, which has been subject to damages, alterations or misuse by the purchaser.
- The warranty is also void in case of repairs by any unauthorized or untrained person.

For further instructions please read the User Manual.

Fosera Lighting has the right to decide whether the product will be repaired or replaced. The warranty is limited to the free replacement of all-defective parts and free labor during the warranty period. Defective parts replaced under this warranty shall become the property of Fosera Lighting.

Fosera Lighting shall not be responsible for any consequential damage or damage that exceeds the value of the product.

A warranty repair does not extend the warranty period.

In case of warranty please use the form below to send the product back or bring it back to the merchant you purchased it from. The purchaser is required to bear all transport expenses to our repair base. Fosera Lighting is not liable for any damage happened during the transportation.

THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THIS DESCRIPTION, AND EXPRESSLY NO IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT FOSERA LIGHTING WILL BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR ANTICIPATED LOSS OF PROFITS SUFFERED BY THE PURCHASER.

Product return form

Ship to:
fosera Limited
9/110 Moo 5, Klong Nueng,
Klongluang, Patumthani 12120
Thailand

Name: _____ Email:_____

Address: _____ Phone:_____

_____

_____

Part/s returned:_____

Reason for return:

_____

_____

_____

_____

_____

_____

Signature, Date (dd/mm/yyyy)